

GTTCCTGAGCACAGGGCTGGAGAGAAAACCTCTGCGAGGAAAGGGAAGGAGCAAGCCGTGA

140 150
GLY ASN HIS ASN TYR CYS ARG ASN PRO ASP ARG ASP SER LYS PRO
GGG AAC CAC AAC TAC TGC AGA AAC CCA GAT CGA GAC TCA AAG CCC

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160
 TRP CYS TYR VAL PHE LYS ALA GLY LYS TYR SER SER GLU PHE CYS
 TGG TGC TAC GTC TTT AAG GCG GGG AAG TAC AGC TCA GAG TTC TGC

170
 SER THR PRO ALA CYS SER GLU GLY ASN SER ASP CYS TYR PHE GLY
 AGC ACC CCT GCC TGC TCT GAG GGA AAC AGT GAC TGC TAC TTT GGG

180
 ASN GLY SER ALA TYR ARG GLY THR HIS SER LEU THR GLU SER GLY
 AAT GGG TCA GCC TAC CGT GGC ACG CAC AGC CTC ACC GAG TCG GGT

190
 ALA SER CYS LEU PRO TRP ASN SER MET ILE LEU ILE GLY LYS VAL
 GCC TCC TGC CTC CCG TGG AAT TCC ATG ATC CTG ATA GGC AAG GTT

200
 TYR THR ALA GLN ASN PRO SER ALA GLN ALA LEU GLY LEU GLY LYS
 TAC ACA GCA CAG AAC CCC AGT GCC CAG GCA CTG GGC CTG GGC AAA

210
 HIS ASN TYR CYS ARG ASN PRO ASP GLY ASP ALA LYS PRO TRP CYS
 CAT AAT TAC TGC CGG AAT CCT GAT GGG GAT GCC AAG CCC TGG TGC

220
 HIS VAL LEU LYS ASN ARG ARG LEU THR TRP GLU TYR CYS ASP VAL
 CAC GTG CTG AAG AAC CGC AGG CTG ACG TGG GAG TAC TGT GAT GTG

230
 PRO SER CYS SER THR CYS GLY LEU ARG GLN TYR SER GLN PRO GLN
 CCC TCC TGC TCC ACC TGC GGC CTG AGA CAG TAC AGC CAG CCT CAG

240
 PHE ARG ILE LYS GLY GLY LEU PHE ALA ASP ILE ALA SER HIS PRO
 TTT CGC ATC AAA GGA GGG CTC TTC GCC GAC ATC GCC TCC CAC CCC

250
 TRP GLN ALA ALA ILE PHE ALA LYS HIS ARG ARG SER PRO GLY GLU
 TGG CAG GCT GCC ATC TTT GCC AAG CAC AGG AGG TCG CCC GGA GAG

260
 ARG PHE LEU CYS GLY GLY ILE LEU ILE SER SER CYS TRP ILE LEU
 CGG TTC CTG TGC GGG GGC ATA CTC ATC AGC TCC TGC TGG ATT CTC

270
 SER ALA ALA HIS CYS PHE GLN GLU ARG PHE PRO PRO HIS HIS LEU
 TCT GCC GCC CAC TGC TTC CAG GAG AGG TTT CCG CCC CAC CAC CTG

280
 THR VAL ILE LEU GLY ARG THR TYR ARG VAL VAL PRO GLY GLU GLU
 ACG GTG ATC TTG GGC AGA ACA TAC CGG GTG GTC CCT GGC GAG GAG

290
 300
 310
 320
 330
 340

FIG. 1B

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350
 GLU GLN LYS PHE GLU VAL GLU LYS TYR ILE VAL HIS LYS GLU PHE
 GAG CAG AAA TTT GAA GTC GAA AAA TAC ATT GTC CAT AAG GAA TTC

360
 ASP ASP ASP THR TYR ASP ASN ASP ILE ALA LEU LEU GLN LEU LYS
 GAT GAT GAC ACT TAC GAC AAT GAC ATT GCG CTG CTG CAG CTG AAA

370
 SER ASP SER SER ARG CYS ALA GLN GLU SER SER VAL VAL ARG THR
 TCG GAT TCG TCC CGC TGT GCC CAG GAG AGC AGC GTG GTC CGC ACT

380
 VAL CYS LEU PRO PRO ALA ASP LEU GLN LEU PRO ASP TRP THR GLU
 GTG TGC CTT CCC CCG GCG GAC CTG CAG CTG CCG GAC TGG ACG GAG

390
 CYS GLU LEU SER GLY TYR GLY LYS HIS GLU ALA LEU SER PRO PHE
 TGT GAG CTC TCC GGC TAC GGC AAG CAT GAG GCC TTG TCT CCT TTC

400
 TYR SER GLU ARG LEU LYS GLU ALA HIS VAL ARG LEU TYR PRO SER
 TAT TCG GAG CGG CTG AAG GAG GCT CAT GTC AGA CTG TAC CCA TCC

410
 SER ARG CYS THR SER GLN HIS LEU LEU ASN ARG THR VAL THR ASP
 AGC CGC TGC ACA TCA CAA CAT TTA CTT AAC AGA ACA GTC ACC GAC

420
 ASN MET LEU CYS ALA GLY ASP THR ARG SER GLY GLY PRO GLN ALA
 AAC ATG CTG TGT GCT GGA GAC ACT CGG AGC GGC GGG CCC CAG GCA

430
 ASN LEU HIS ASP ALA CYS GLN GLY ASP SER GLY GLY PRO LEU VAL
 AAC TTG CAC GAC GCC TGC CAG GGC GAT TCG GGA GGC CCC CTG GTG

440
 CYS LEU ASN ASP GLY ARG MET THR LEU VAL GLY ILE ILE SER TRP
 TGT CTG AAC GAT GGC CGC ATG ACT TTG GTG GGC ATC ATC AGC TGG

450
 GLY LEU GLY CYS GLY GLN LYS ASP VAL PRO GLY VAL TYR THR LYS
 GGC CTG GGC TGT GGA CAG AAG GAT GTC CCG GGT GTG TAC ACC AAG

460
 VAL THR ASN TYR LEU ASP TRP ILE ARG ASP ASN MET ARG PRO OP
 GTT ACC AAC TAC CTA GAC TGG ATT CGT GAC AAC ATG CGA CCG TGA

470
 500
 510
 520
 527

FIG. 1C

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CCAGGAACACCCGACTCCTCAAAAGCAAATGAGATCCCGCCTCTTCTTCTTCAGAAGACA
CTGCAAAGGCGCAGTGCTTCTCTACAGACTTCTCCAGACCCACCACACCGCAGAAGCGGG
ACGAGACCCTACAGGAGAGGGAAGAGTGCATTTTCCCAGATACTTCCCATTTTGGAAGT
TTTCAGGACTTGGTCTGATTTTCAGGATACTCTGTCAGATGGGAAGACATGAATGCACACT
AGCCTCTCCAGGAATGCCTCCTCCCTGGGCAGAAAGTGGCCATGCCACCCTGTTTTTCAGCTA
AAGCCCAACCTCCTGACCTGTCACCGTGAGCAGCTTTGGAAACAGGACCACAAAAATGAA
AGCATGTCTCAATAGTAAAAGATAACAAGATCTTTCAGGAAAGACGGATTGCATTAGAA
ATAGACAGTATATTTATAGTCACAAGAGCCCAGCAGGGCCTCAAAGTTGGGGCAGGCTGGC
TGGCCCGTCATGTTCTCAAAAGCACCTTGACGTCAAGTCTCCTTCCCCTTTCCCCTACT
CCCTGGCTCTCAGAAGGTATTCCTTTTGTGTACAGTGTGTAAAGTGTAATCCTTTTTCT
TTATAAACTTTAGAGTAGCATGAGAGAATTGTATCATTTGAACAAGTAGGCTTCAGCATA
TTTATAGCAATCCATGTTAGTTTTTACTTTCTGTTGCCACAACCCTGTTTTATACTGTA
CTTAATAAATTCAGATATATTTTTCACAGTTTTTCCAAAAAAAAAAAAAA

FIG. 1D

FIG. 2A

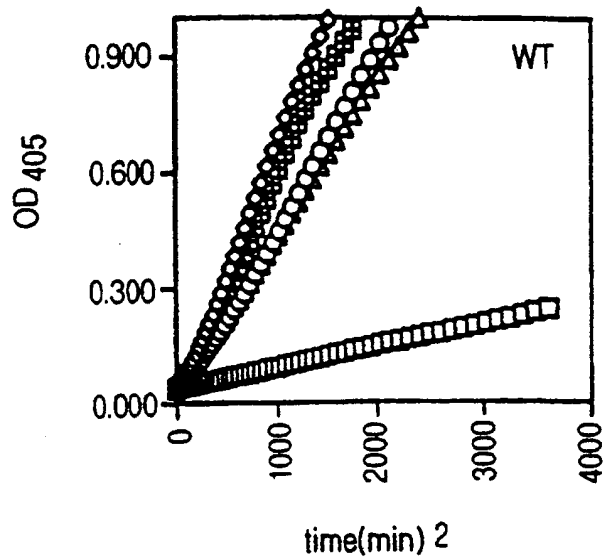


FIG. 2B

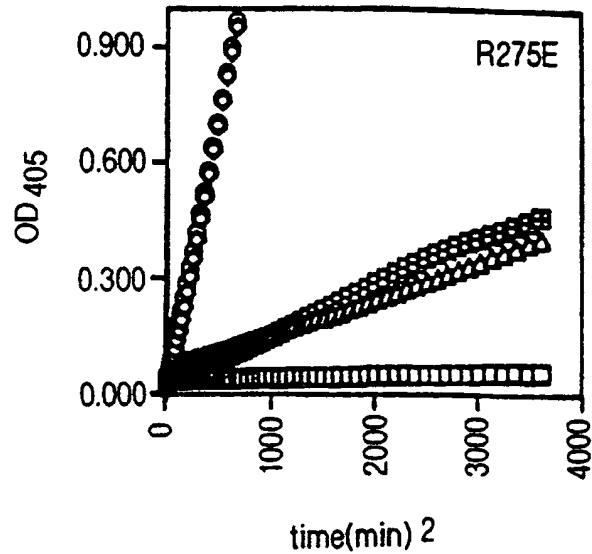


FIG. 2C

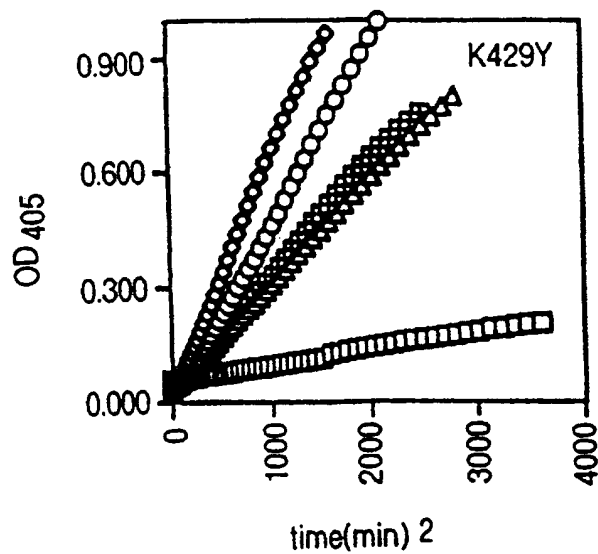


FIG. 2D

